

10/618,956 12/1/2006

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FILE 'HOME' ENTERED AT 10:39:45 ON 01 DEC 2006

SINCE FILE ENTRY	TOTAL SESSION 0.21
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FILE 'REGISTRY' ENTERED AT 10:39:53 ON 01 DEC 2006
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STRUCTURE FILE UPDATES: 30 NOV 2006 HIGHEST RN 914452-16-7
DICTIONARY FILE UPDATES: 30 NOV 2006 HIGHEST RN 914452-16-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

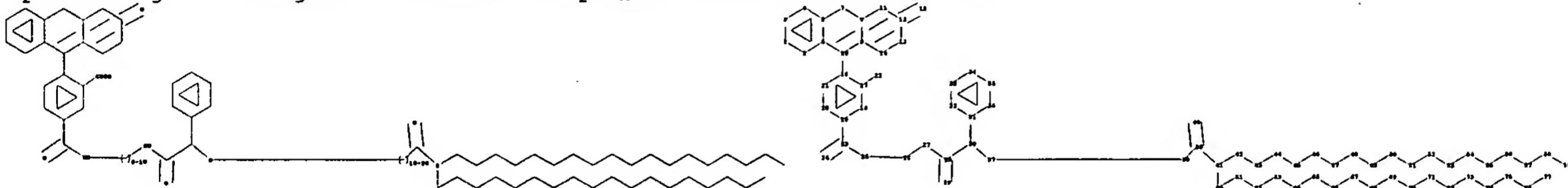
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

```
=> Uploading C:\Program Files\Stnexp\Queries\10618956\1.str
```



chain nodes :

15 22 23 24 25 26 27 28 29 30 37 38 39 40 41 42 43 44 45 46 47 48
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77

ring nodes :

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 17 18 19 20 21 31 32 33 34 35
36

chain bonds :

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10-16 12-15 17-22 19-23 23-24 23-25 25-26 26-27 27-28 28-29 28-30 30-31 30-37
37-38 38-39 39-40 39-41 41-42 41-60 42-43 43-44 44-45 45-46 46-47 47-48
48-49 49-50 50-51 51-52 52-53 53-54 54-55 55-56 56-57 57-58 58-59 60-61 61-62
62-63 63-64 64-65 65-66 66-67 67-68 68-69 69-70 70-71 71-72 72-73 73-74
74-75 75-76 76-77

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13 13-14
16-17 16-21 17-18 18-19 19-20 20-21 31-32 31-36 32-33 33-34 34-35 35-36

exact/norm bonds :

5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-15 12-13 13-14 23-24 23-25 25-26
26-27 27-28 28-29 30-37 37-38 39-40 39-41 41-42 41-60

exact bonds :

10-16 17-22 19-23 28-30 30-31 38-39 42-43 43-44 44-45 45-46 46-47 47-48 48-49
49-50 50-51 51-52 52-53 53-54 54-55 55-56 56-57 57-58 58-59 60-61 61-62
62-63 63-64 64-65 65-66 66-67 67-68 68-69 69-70 70-71 71-72 72-73 73-74 74-75
75-76 76-77

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21 31-32 31-36
32-33 33-34 34-35 35-36

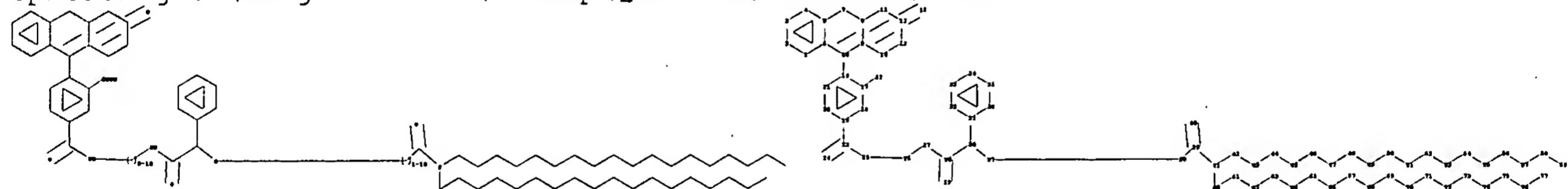
Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS
31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:CLASS 38:CLASS 39:CLASS
40:CLASS 41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS
49:CLASS 50:CLASS 51:CLASS 52:CLASS 53:CLASS 54:CLASS 55:CLASS 56:CLASS 57:CLASS
58:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS 63:CLASS 64:CLASS 65:CLASS 66:CLASS
67:CLASS 68:CLASS 69:CLASS 70:CLASS 71:CLASS 72:CLASS 73:CLASS 74:CLASS 75:CLASS
76:CLASS 77:CLASS

L1 STRUCTURE UPLOADED

=>

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chain nodes :

15 22 23 24 25 26 27 28 29 30 37 38 39 40 41 42 43 44 45 46 47 48
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 17 18 19 20 21 31 32 33 34 35
36

chain bonds :

10-16 12-15 17-22 19-23 23-24 23-25 25-26 26-27 27-28 28-29 28-30 30-31 30-37
37-38 38-39 39-40 39-41 41-42 41-60 42-43 43-44 44-45 45-46 46-47 47-48
48-49 49-50 50-51 51-52 52-53 53-54 54-55 55-56 56-57 57-58 58-59 60-61 61-62
62-63 63-64 64-65 65-66 66-67 67-68 68-69 69-70 70-71 71-72 72-73 73-74

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ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13 13-14
16-17 16-21 17-18 18-19 19-20 20-21 31-32 31-36 32-33 33-34 34-35 35-36

exact/norm bonds :

5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-15 12-13 13-14 23-24 23-25 25-26
26-27 27-28 28-29 30-37 37-38 39-40 39-41 41-42 41-60

exact bonds :

10-16 17-22 19-23 28-30 30-31 38-39 42-43 43-44 44-45 45-46 46-47 47-48 48-49
49-50 50-51 51-52 52-53 53-54 54-55 55-56 56-57 57-58 58-59 60-61 61-62
62-63 63-64 64-65 65-66 66-67 67-68 68-69 69-70 70-71 71-72 72-73 73-74 74-75
75-76 76-77

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21 31-32 31-36
32-33 33-34 34-35 35-36

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS
31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:CLASS 38:CLASS 39:CLASS
40:CLASS 41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS
49:CLASS 50:CLASS 51:CLASS 52:CLASS 53:CLASS 54:CLASS 55:CLASS 56:CLASS 57:CLASS
58:CLASS 59:CLASS 60:CLASS 61:CLASS 62:CLASS 63:CLASS 64:CLASS 65:CLASS 66:CLASS
67:CLASS 68:CLASS 69:CLASS 70:CLASS 71:CLASS 72:CLASS 73:CLASS 74:CLASS 75:CLASS
76:CLASS 77:CLASS

L2 STRUCTURE UPLOADED

=> d

L2 HAS NO ANSWERS

L2 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 12 full

FULL SEARCH INITIATED 10:41:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

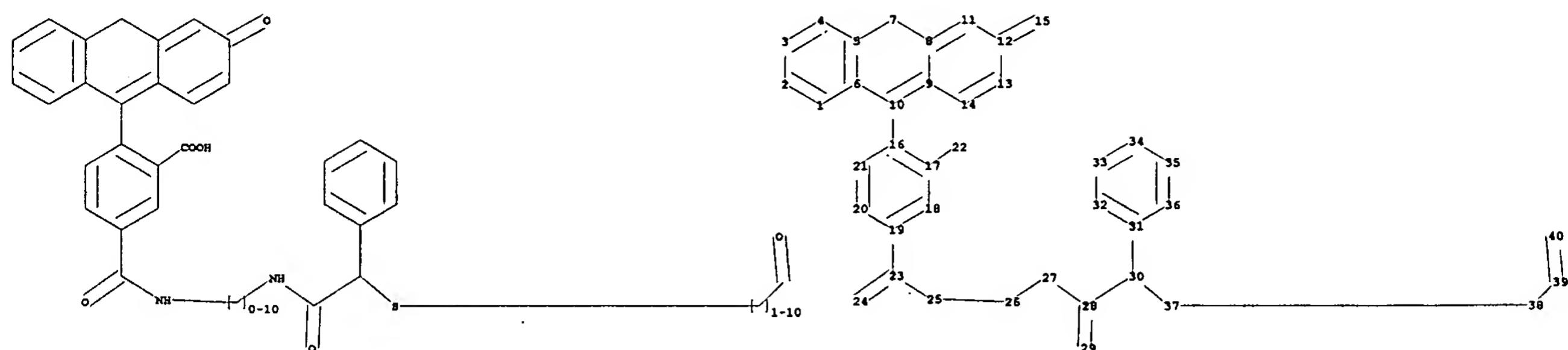
100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L2

=>

Uploading C:\Program Files\Stnexp\Queries\10618956\3.str

10/618,956 12/1/2006



chain nodes :
 15 22 23 24 25 26 27 28 29 30 37 38 39 40
 ring nodes :
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 17 18 19 20 21 31 32 33 34 35
 36
 chain bonds :
 10-16 12-15 17-22 19-23 23-24 23-25 25-26 26-27 27-28 28-29 28-30 30-31 30-37
 37-38 38-39 39-40
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-13 12-14 13-14
 16-17 16-21 17-18 18-19 19-20 20-21 31-32 31-36 32-33 33-34 34-35 35-36
 exact/norm bonds :
 5-7 6-10 7-8 8-9 8-11 9-10 9-14 11-12 12-15 12-13 13-14 23-24 23-25 25-26
 26-27 27-28 28-29 30-37 37-38 39-40
 exact bonds :
 10-16 17-22 19-23 28-30 30-31 38-39
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21 31-32 31-36
 32-33 33-34 34-35 35-36

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
 12:Atom 13:Atom 14:Atom 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS
 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:CLASS 38:CLASS 39:CLASS
 40:CLASS

L4 STRUCTURE UPLOADED

=> s 14 full
 FULL SEARCH INITIATED 10:42:38 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

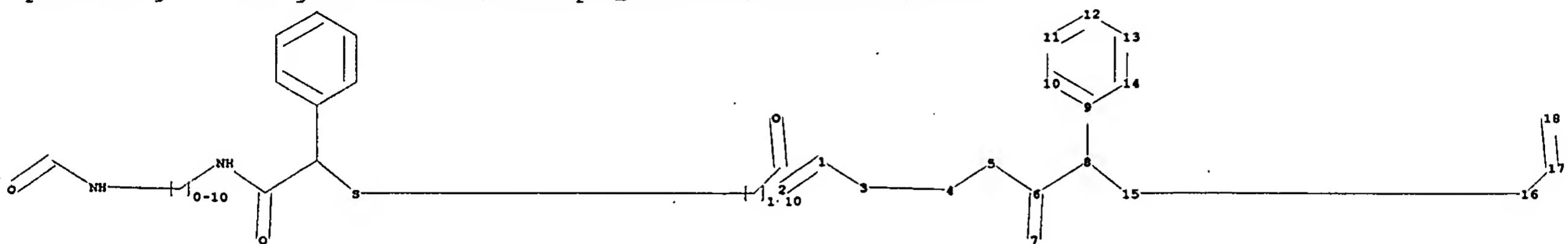
10/618,956 12/1/2006

L5

0 SEA SSS FUL L4

=>

Uploading C:\Program Files\Stnexp\Queries\10618956\4.str



chain nodes :

1 2 3 4 5 6 7 8 15 16 17 18

ring nodes :

9 10 11 12 13 14

chain bonds :

1-3 1-2 3-4 4-5 5-6 6-7 6-8 8-9 8-15 15-16 16-17 17-18

ring bonds :

9-10 9-14 10-11 11-12 12-13 13-14

exact/norm bonds :

1-3 1-2 3-4 4-5 5-6 6-7 8-15 15-16 17-18

exact bonds :

6-8 8-9 16-17

normalized bonds :

9-10 9-14 10-11 11-12 12-13 13-14

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS

L6 STRUCTURE UPLOADED

=> s 16

SAMPLE SEARCH INITIATED 10:43:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 27 TO ITERATE

100.0% PROCESSED 27 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 229 TO 851

PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L6

=> s 16 full

FULL SEARCH INITIATED 10:43:44 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 688 TO ITERATE

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100.0% PROCESSED 688 ITERATIONS
SEARCH TIME: 00.00.01

L8 12 SEA SSS FUL L6

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

	SINCE FILE ENTRY	TOTAL SESSION
	502.58	502.79

FILE 'CAPLUS' ENTERED AT 10:43:48 ON 01 DEC 2006
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FILE LAST UPDATED: 30 Nov 2006 (20061130/ED)

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=> s 18
L9 14 L8

=> d ibib hitstr 1-14

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(2)

10/618,956 12/1/2006

=> file reg
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE
 ENTRY
 50.52

TOTAL
 SESSION
 553.31

FILE 'REGISTRY' ENTERED AT 10:45:46 ON 01 DEC 2006
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STRUCTURE FILE UPDATES: 30 NOV 2006 HIGHEST RN 914452-16-7
 DICTIONARY FILE UPDATES: 30 NOV 2006 HIGHEST RN 914452-16-7

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

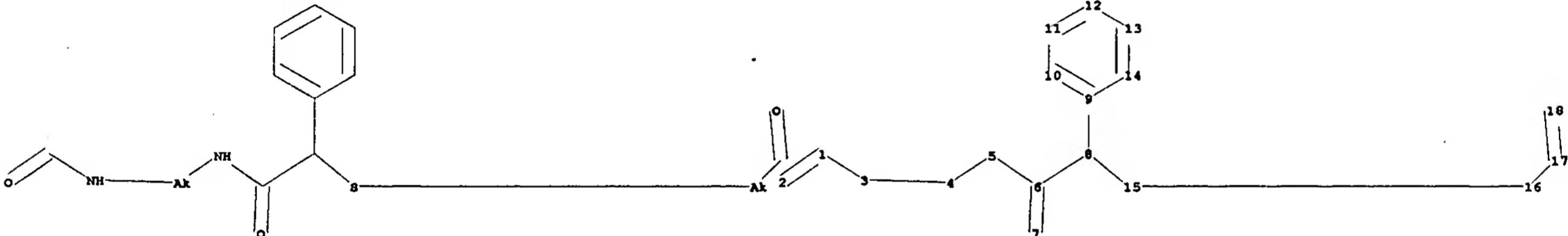
Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
 predicted properties as well as tags indicating availability of
 experimental property data in the original document. For information
 on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

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chain nodes :
 1 2 3 4 5 6 7 8 15 16 17 18
 ring nodes :
 9 10 11 12 13 14
 chain bonds :
 1-3 1-2 3-4 4-5 5-6 6-7 6-8 8-9 8-15 15-16 16-17 17-18
 ring bonds :
 9-10 9-14 10-11 11-12 12-13 13-14
 exact/norm bonds :
 1-3 1-2 3-4 4-5 5-6 6-7 8-15 15-16 16-17 17-18
 exact bonds :
 6-8 8-9
 normalized bonds :
 9-10 9-14 10-11 11-12 12-13 13-14

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Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:CLASS

L10 STRUCTURE UPLOADED

=> s 110
SAMPLE SEARCH INITIATED 10:46:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 841 TO ITERATE

100.0% PROCESSED 841 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 15081 TO 18559
PROJECTED ANSWERS: 0 TO 0

L11 0 SEA SSS SAM L10

=> s 110 full
FULL SEARCH INITIATED 10:46:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 18007 TO ITERATE

100.0% PROCESSED 18007 ITERATIONS 12 ANSWERS
SEARCH TIME: 00.00.03

L12 12 SEA SSS FUL L10

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
FULL ESTIMATED COST ENTRY SESSION
166.94 720.25

FILE 'CAPLUS' ENTERED AT 10:46:11 ON 01 DEC 2006
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FILE LAST UPDATED: 30 Nov 2006 (20061130/ED)

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<http://www.cas.org/infopolicy.html>

10/618,956 12/1/2006

=> s 112
L13 14 L12
=> d ibib hitstr 1-14

10/618,956 12/1/2006